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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,981	07/16/2003	Roy M. Brooks	CIS03-25(7365)	8822	
58406 7590 10/30/2007 BARRY W. CHAPIN, ESQ. CHAPIN INTELLECTUAL PROPERTY LAW, LLC			EXAM	EXAMINER	
			TO, BAOTRAN N		
	WESTBOROUGH OFFICE PARK 1700 WEST PARK DRIVE WESTBOROUGH, MA 01581		ART UNIT	PAPER NUMBER	
WESTBOROU			2135		
			MAIL DATE	DELIVERY MODE	
			10/30/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/620,981	BROOKS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Baotran N. To	2135			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	·				
1) Responsive to communication(s) filed on 08/2	0/2007(RCE).				
2a) ☐ This action is FINAL . 2b) ☑ This	ı) ☐ This action is FINAL . 2b) ☒ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) <u>1-5,7-13,16-23,25 and 27-39</u> is/are p 4a) Of the above claim(s) <u>6,14-15, 24 and 26 (</u> 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-5,7-13,16-23,25 and 27-39</u> is/are re 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	Canceled) is/are withdrawn from ejected.	consideration .			
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Is have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	eate			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/20/2007 has been entered.

This Office action is responsive to the Applicant's Amendment filed 07/19/2007.

Claims 1, 19, and 36-39 are amended.

Claims 6, 14-15, 24, and 26 are canceled.

Claims 1-5, 7-13, 16-23, 25, and 27-39 remain for examination.

Response to Arguments

2. Applicant's arguments filed 07/19/2007 have been fully considered but they are not persuasive.

Applicant argues, "Amended claim 1, however, was amended with dependent Claim 14, and thus the scope of amended claim 1 is exactly the same as originally filed claim 14, to recite propagating routing information according to a predetermined protocol, the routing information operable to designate the target node as the destination of the message according to the second transport mechanism" (Page 1 of Remarks).

Examiner disagrees with this contention. This is incorrect. The dependent Claim 14 does not contain the limitation above. Applicant proposed to amend the independent Claim 1 with limitation "propagating routing information according to a predetermined protocol, the routing information operable to designate the target node as the destination of the message according to the second transport mechanism." The amended limitation changes the scope of the independent Claim 1. Therefore, it is needed for reconsideration and search.

Applicant argues, "With respect to the new rejections at hand, Ylonen '379 does not show a reroute message for rerouting in an overlay manner, as discussed further at page 5, lines 5-13. Rather, Ylonen '379 takes one of two distinct paths based on routing considerations (paragraph [0039] and source A and source B in the cited example), not on overlay path between the same endpoints" (Page 1 of Remarks).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., rerouting in an overlay manner) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

For at least the above reasons, it is believed that the rejection is maintained.

Claim Objections

3. Claim 1 is objected to because of the following informalities: "the filtering complex" in line 10 should be -- the filter complex--. Appropriate correction is required.

Claim 8 is objected to because of the following informalities: "The method of claim 6" in line 1 should be --- The method of claim 1 ---- Since Claim 6 is canceled. Appropriate correction is required.

Claims 37 is objected to because of the following informalities: "the filtering complex" in line 21 should be -- **the filter complex**--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5, 7-12, 16-23, 25, 27-30, 32-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Afek et al. (US PG Pub. 2002/0083175 A1) hereinafter Afek in view of Ylonen et al. (US PG Pub. 2003/0110379 A1) hereinafter Ylonen.

Regarding Claim 1, Afek discloses a method for redirecting network message traffic comprising

receiving an indication (see page 13, \P [0284]) of undesirable message traffic (see page 10, \P [0252], "overload traffic") directed to a particular target node (page 10, \P [0252], victim machines) via a first transport mechanism (see page 10, \P [0252], communication channel) in a communications network (see page 10, \P [0245]);

rerouting all message traffic (see page 13, ¶ [0286], rerouting) carried via the first transport mechanism (see page 10, ¶ [0252], communication channel) in the communications network (see page 10, ¶ [0245]), and directed to the particular target node (page 10, ¶ [0252], victim machines), to a filter complex (see page 9, ¶ [0242]) operable to distinguish desirable message traffic (see page 11, ¶ [0261], appropriate message) from undesirable message traffic (see page 10, ¶ [0252], "overload traffic");

rerouting all message traffic (see page 13, ¶ [0286], rerouting) includes directing the filter complex from a network management server in communication with the filter complex (see page 14, ¶ [0298]), the network management server operable to send a reroute message to the filtering complex (see page 14, ¶ [0298]); and

directing the filtering complex (see page 9, \P [0242]) to transmit, via a second transport mechanism (see page 10, \P [0252], secure channel as SSH) over the communications network (see page 10, \P [0245]), the desirable message traffic (see page 11, \P [0261], appropriate message) to the target node (page 11, \P [0261], victim machines),

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directing the filter complex further comprises propagating routing information according to a predetermined protocol (see page 2, ¶ [0016]).

Afek does not disclose "routing information operable to designate the target node, as the destination of the message according to the second transport mechanism."

However, Ylonen expressly discloses routing information operable to designate the target node, as the destination of the message according to the second transport mechanism (see page 3, ¶ [0039]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Ylonen's reference with Afek to include routing information operable to designate the target node, as the destination of the message according to the second transport mechanism. One of ordinary skill in the art would have been motivated to do so because the processed packet should be directed towards their original destination as taught by Ylonen (see page 3, ¶ [0026]).

Regarding Claims 19 and 37, Afek discloses a network management server (see page 10, ¶ [0252], "NOC (Network Operations Center)", "SNMP") for redirecting undesirable message traffic (see page 10, ¶ [0252], "overload traffic") comprising:

a network intrusion detector monitor operable to receive an indication (see page 10, ¶ [0252], sending authenticated messages, signal) of undesirable message traffic (see page 10, ¶ [0252], "overload traffic") directed to a particular target node (page 10, ¶ [0252], victim machines) via a first transport mechanism in a communications network (see page 10, ¶ [0252], communication channel);

a routing processor operable to propagate routing information from a routing table database to reroute all message traffic (see page 10, ¶ [0252], diverting routers) using the first transport mechanism (see page 10, ¶ [0252], communication channel).directed to the particular target node (page 10, ¶ [0252], victim machines); and

a connection to a filter complex responsive to the rerouting processor (see page 10, ¶ [0252], the guards), the filter complex operable to distinguish desirable message traffic from undesirable message traffic (see page 13, ¶ [0288]), and further operable to transmit, via a second transport mechanism (see page 10, ¶ [0252], secure channel as SSH) over the communications network, the desirable message traffic (see page 11, ¶ [0261], victim machines),

rerouting all message traffic (see page 13, ¶ [0286], rerouting) further comprises propagating, via a standard protocol (see page 9, ¶ [0241], Internet) corresponding to the first transport mechanism, a node address other than the node address corresponding to the target node (page 11, ¶ [0261], victim machines),

the routing processor operable to direct the filter complex to propagate routing information according to a predetermined protocol (see page 2, ¶ [0016]),

Afek does not disclose "routing information operable to designate the target node, as the destination of the message according to the second transport mechanism."

However, Ylonen expressly discloses routing information operable to designate the target node, as the destination of the message according to the second transport mechanism (see page 3, ¶ [0039]).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Ylonen's reference with Afek to include routing information operable to designate the target node, as the destination of the message according to the second transport mechanism. One of ordinary skill in the art would have been motivated to do so because the processed packet should be directed towards their original destination as taught by Ylonen (see page 3, ¶ [0026]).

Afek and Ylonen disclose the limitations of Claim 19 above. Afek further discloses the network management server further operable to send a reroute message to the filtering complex (see page 14, ¶ [0298]), in response to which the filter complex is operable to reroute the message traffic, the reroute message (see page 10, ¶ [0252]) indicative of the filtering complex receiving message traffic according to the first transport mechanism intended for the target node (see page 8, ¶ [0214]) via the target node router serving the target node (see page 2, ¶ [0016], victim).

Regarding Claim 36, Afek discloses in a network management server (see page 10, ¶ [0252], "NOC (Network Operations Center)", "SNMP") of a networked system of data communications devices, a method for transparently intercepting, filtering, and rerouting message traffic for recovering from a distributed denial of service attack comprising:

detecting (see page 2, ¶ [0019]; page 13, ¶ [0282]), at a network monitor in the network management server, a pattern of inundating undesirable message traffic (see page 10, ¶ [0252], "overload traffic") to a particular target node (page 10, ¶ [0252],

victim machines) via a first transport mechanism (see page 10, ¶ [0252], communication channel) in a communications network (see page 10, ¶ [0245]);

receiving, via a routing processor, an indication (see page 13, \P [0284]) of the undesirable message traffic (see page 10, \P [0252], "overload traffic") directed to the particular target node (page 10, \P [0252], victim machines);

transmitting, via a network interface, a reroute message (see page 1, ¶ [0011], page 13, ¶ [0284]) to a filter complex (see page 13, ¶ [0284], guard machines) having a security filter operable to distinguish desirable message traffic (see page 11, ¶ [0261], appropriate message) from undesirable message traffic (see page 10, ¶ [0252], "overload traffic"); and

rerouting, via a filter routing device in the filter complex, all message traffic (see page 13, ¶ [0286]) carried via the first transport mechanism (see page 10, ¶ [0252], communication channel) in the communications network (see page 10, ¶ [0245]) and directed to the particular target node (see page 10, ¶ [0252], victim machines);

rerouting all message traffic (see page 13, ¶ [0286], rerouting) includes directing the filter complex from a network management server in communication with the filter complex (see page 14, ¶ [0298]), the network management server operable to send a reroute message to the filtering complex (see page 14, ¶ [0298]), the reroute message (see page 10, ¶ [0252]) indicative of the filtering complex receiving message traffic according to the first transport mechanism intended for the target node (see page 8, ¶ [0214]) via the target node router serving the target node (see page 2, ¶ [0016], victim);

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filtering, at the security filter, the message traffic to bifurcate (see page 13, ¶ [0293]) desirable message traffic (see page 11, ¶ [0261], appropriate message) from undesirable message traffic (see page 10, ¶ [0252], "overload traffic"); transmitting, via the network interface to a target node router serving the target node, a redirect message indicating that the target node router is to receive (see page 1, ¶ [0011]), via the second transport mechanism (see page 10, ¶ [0252], secure channel as SSH), the desirable message traffic (see page 11, ¶ [0261], appropriate message) directed to the particular target node and rerouted to the filter complex (see page 13, ¶ [0293]), the filter complex and the target node router conversant in the first transport mechanism (see page 10, ¶ [0252], communication channel)and the second transport mechanism (see page 10, ¶ [0252], secure channel as SSH); and

directing, from the network management server, the filtering complex to transmit, via a second transport mechanism (see page 10, \P [0252], secure channel as SSH) over the communications network (see page 10, \P [0245]), the desirable message traffic to the target node (see page 11, \P [0261]),

directing the filter complex further comprises propagating routing information according to a predetermined protocol (see page 2, ¶ [0016]).

Afek does not disclose "routing information operable to designate the target node, as the destination of the message according to the second transport mechanism."

However, Ylonen expressly discloses routing information operable to designate the target node, as the destination of the message according to the second transport mechanism (see page 3, ¶ [0039]).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Ylonen's reference with Afek to include routing information operable to designate the target node, as the destination of the message according to the second transport mechanism. One of ordinary skill in the art would have been motivated to do so because the processed packet should be directed towards their original destination as taught by Ylonen (see page 3, ¶ [0026]).

Regarding Claims 2 and 20, Afek and Ylonen disclose directing the filter complex to filter the message traffic (see page 10, ¶ [0253]) to subdivide desirable message traffic (see page 11, ¶ [0261], appropriate message) from undesirable message traffic (see page 10, ¶ [0252], "overload traffic"; page 13, ¶[0288]).

Regarding Claims 3 and 21, Afek and Ylonen disclose wherein the filter complex further comprises a security filter having filtering logic for performing filtering (see page 13, ¶ [0293], rules), the security filter operable to parse the message traffic and identify sequences in the message traffic indicative of undesirable message traffic (see page 13, ¶ [0288] & [0295]).

Regarding Claims 4 and 22, Afek and Ylonen disclose wherein the filter complex further includes a filter routing device in communication with other routing devices in the communications network (see page 14, ¶ [0301], "working in connection with the

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routers") and coupled to the security filter for analyzing message traffic (see page 13, \P [0293] & \P [0295]).

Regarding Claims 5 and 23, Afek and Ylonen disclose wherein the filter routing device (see page 14, ¶ [0304]) in the filtering complex (see page 14, ¶ [0291], element 10) is operable to communicate according to the first transport mechanism (see page 10, ¶ [0252], communication channel) and the second transport mechanism (see page 10, ¶ [0252], secure channel as SSH).

Regarding Claims 7 and 25, Afek and Ylonen disclose directing a target node router serving the target node (page 11, ¶ [0261], victim machines) from the network management server (see page 10, ¶ [0252]), the network management server operable to send a redirect message to the target node router (see page 1, ¶ [0015]; page 14, ¶ [0298]).

Regarding Claim 8, Afek and Ylonen disclose the reroute message (see page 10, ¶ [0252]) is indicative of the filtering complex receiving message traffic according to the first transport mechanism intended for the target node (see page 8, ¶ [0214]) via the target node router serving the target node (see page 2, ¶ [0016], victim).

Regarding Claims 9 and 27, Afek and Ylonen disclose wherein the redirect message (see page 11, ¶ [0257], alert) is indicative that the target router serving the

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target node is not to receive message traffic (see page 11, \P [0257]) according to the first transport mechanism corresponding to the target node (see page 11, \P [0257], victim).

Regarding Claims 10 and 28, Afek and Ylonen disclose wherein the redirect message is indicative that the target node router (see page 13, ¶ [0290]) serving the target node (see page 10, ¶ [0247], "potential victims") receives the desirable message traffic in the second transport mechanism corresponding to the target node.

Regarding Claims 11 and 29, Afek and Ylonen disclose wherein first and second transport mechanisms coexist on a common physical network (see Figure 1, page 9, ¶ [0240]).

Regarding Claims 12 and 30, Afek and Ylonen disclose wherein first transport mechanism corresponds to a public access protocol (see page 9, ¶ [0241], IP network) adapted for communication via a plurality of dissimilar network switching devices (see page 9, ¶ [0241], "switches").

Regarding Claim 32, Afek and Ylonen disclose wherein rerouting all message traffic (see Afek page 13, ¶ [0286], rerouting) further comprises propagating, via a standard protocol (see Afek page 9, ¶ [0241], Internet) corresponding to the first

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transport mechanism, a node address other than the node address corresponding to the target node (page 11, ¶ [0261], victim machines).

Regarding Claim 33, Afek and Ylonen disclose wherein directing the filter complex further comprises propagating routing information according to a predetermined protocol (see Afek page 2, ¶ [0016]), the routing information operable to designate the target node (see Afek page 2, ¶ [0016], victim) as the destination of the message according to the second transport mechanism (see Ylonen page 3, ¶ [0026]).

Regarding Claims 16 and 34, Afek and Ylonen disclose wherein rerouting all message traffic is a static route (see page 2, ¶ [0016]; page 11, ¶ [0267]), according to the first transport mechanism (see page 10, ¶ [0252], communication channel), from a single router serving the target node (see abstract, "second set") to the filter router (see page 14, ¶ [0304]) serving the filter complex (see fig. 2).

Regarding Claim 17, Afek and Ylonen disclose wherein receiving an indication (see page 13, ¶ [0284]) further comprises detecting a recognizable pattern of inundating undesirable message traffic (see page 3, ¶ [0039]).

Regarding Claims 18 and 35, Afek and Ylonen disclose wherein the undesirable message traffic (see page 10, ¶ [0252], "overload traffic") emanates from a plurality of sources (see page 1, ¶ [0002], DDOS), each of the plurality of sources independently

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contributing substantially insignificant volume of message traffic (see page 1, ¶ [0002], DDOS).

5. Claims 13 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Afek and Ylonen applied to claims 1 and 19 above, and further in view of Desai et al (U.S. PG Pub 2003/0188189) hereinafter Desai.

Regarding Claims 13 and 31, Afek and Ylonen disclose all the limitations above.

Afek and Ylonen do not disclose wherein the second transport mechanism corresponds to a virtual private network operable to encapsulate message packets of dissimilar protocols such that the encapsulated message packets are recognized by a routing protocol of the virtual private network.

However, Desai expressly discloses wherein the second transport mechanism corresponds to a virtual private network" (see page 1, ¶ [0012]; page 3, ¶ [0044], VPNs) operable to encapsulate message packets of dissimilar protocols such that the encapsulated message packets are recognized by a routing protocol of the virtual private network (see page 1, ¶ [0012]; page 3, ¶ [0044], VPNs).

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have modified Ylonen's reference with Afek which disclose use of SSH (see Afek, page 10, ¶ [0252], "SSH") to include the use of Virtual private network like in Desai's reference for the purpose to ensure secure data transfer (see Desai, page 3, ¶ [0044]).

6. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Afek et al. (US PG Pub. 2002/0083175 A1) hereinafter Afek in view of Ylonen et al. (US PG Pub. 2003/0110379 A1) hereinafter Ylonen and further in view of Desai et al (U.S. PG Pub 2003/0188189) hereinafter Desai.

Regarding Claim 38, Afek discloses an encoded set of processor based instructions tangible encoded on a computer readable medium embodying program code for redirecting network message traffic comprising:

program code for receiving an indication (see page 13, ¶ [0284]) of undesirable message traffic (see page 10, ¶ [0252], "overload traffic") directed to a particular target node (page 10, ¶ [0252], victim machines) via a first transport mechanism (see page 10, ¶ [0252], communication channel) in a communications network (see page 10, ¶ [0245]);

program code for rerouting all message traffic (see page 13, ¶ [0286], rerouting) carried via the first transport mechanism (see page 10, ¶ [0252], communication channel) in the communications network (see page 10, ¶ [0245]), and directed to the particular target node (page 10, ¶ [0252], victim machines), to a filter complex (see page 9, ¶ [0242]) operable to distinguish desirable message traffic (see page 11, ¶ [0261], appropriate message) from undesirable message traffic (see page 10, ¶ [0252], "overload traffic"); rerouting all message traffic (see page 13, ¶ [0286], rerouting) includes directing the filter complex from a network management server in

communication with the filter complex (see page 14, ¶ [0298]), the network management server operable to send a reroute message to the filtering complex (see page 14, ¶ [0298]), the reroute message (see page 10, ¶ [0252]) indicative of the filtering complex receiving message traffic according to the first transport mechanism intended for the target node (see page 8, ¶ [0214]) via the target node router serving the target node (see page 2, ¶ [0016], victim);

means for filter complex further comprises: means for propagating routing information according to a predetermined protocol (see page 2, \P [0016]).

Afek does not disclose "routing information operable to designate the target node, as the destination of the message according to the second transport mechanism."

However, Ylonen expressly discloses routing information operable to designate the target node, as the destination of the message according to the second transport mechanism (see page 3, ¶ [0039]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Ylonen's reference with Afek to include routing information operable to designate the target node, as the destination of the message according to the second transport mechanism. One of ordinary skill in the art would have been motivated to do so because the processed packet should be directed towards their original destination as taught by Ylonen (see page 3, ¶ [0026]).

Afek and Ylonen disclose all the limitations of Claim 38 above. Afek and Ylonen do not disclose "wherein the second transport mechanism corresponds to a virtual private network operable to encapsulate message packets of dissimilar protocols such

that the encapsulated message packets are recognized by a routing protocol of the virtual private network."

However, Desai expressly discloses wherein the second transport mechanism corresponds to a virtual private network" (see page 1, ¶ [0012]; page 3, ¶ [0044], VPNs) operable to encapsulate message packets of dissimilar protocols such that the encapsulated message packets are recognized by a routing protocol of the virtual private network (see page 1, ¶ [0012]; page 3, ¶ [0044], VPNs).

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have modified Desai's reference with Afek and Ylonen which disclose use of SSH (see Afek, page 10, ¶ [0252], "SSH") to include the use of Virtual private network like in Desai's reference for the purpose to ensure secure data transfer (see Desai, page 3, ¶ [0044]).

7. Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Afek et al. (US PG Pub. 2002/0083175 A1) hereinafter Afek in view of Desai et al (U.S. PG Pub 2003/0188189) hereinafter Desai.

Regarding Claim 39, Afek discloses a network management server for redirecting undesirable message traffic comprising;

means for receiving an indication (see page 13, ¶ [0284]) of undesirable message traffic (see page 10, ¶ [0252], "overload traffic") directed to a particular target node (page 10, ¶ [0252], victim machines) via a first transport mechanism (see page 10,

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 \P [0252], communication channel) in a communications network (see page 10, \P [0245]);

means for rerouting all message traffic (see page 13, ¶ [0286], rerouting) carried via the first transport mechanism (see page 10, ¶ [0252], communication channel) in the communications network (see page 10, ¶ [0245]), and directed to the particular target node (page 10, ¶ [0252], victim machines), to a filter complex (see page 9, ¶ [0242]) operable to distinguish desirable message traffic (see page 11, ¶ [0261], appropriate message) from undesirable message traffic (see page 10, ¶ [0252], "overload traffic"); rerouting all message traffic (see page 13, ¶ [0286], rerouting) includes directing the filter complex from a network management server in communication with the filter complex (see page 14, ¶ [0298]), the network management server operable to send a reroute message to the filtering complex (see page 14, ¶ [0298]), the reroute message (see page 10, ¶ [0252]) indicative of the filtering complex receiving message traffic according to the first transport mechanism intended for the target node (see page 8, ¶ [0214]) via the target node router serving the target node (see page 2, ¶ [0016], victim); and means for directing the filtering complex (see page 9, ¶ [0242]) to transmit, via a second transport mechanism (see page 10, ¶ [0252], secure channel as SSH) over the communications network (see page 10, ¶ [0245]), the desirable message traffic (see page 11, ¶ [0261], appropriate message) to the target node (page 11, ¶ [0261], victim machines).

Afek does not disclose wherein the second transport mechanism corresponds to a virtual private network operable to encapsulate message packets of dissimilar

protocols such that the encapsulated message packets are recognized by a routing protocol of the virtual private network.

However, Desai expressly discloses wherein the second transport mechanism corresponds to a virtual private network" (see page 1, ¶ [0012]; page 3, ¶ [0044], VPNs) operable to encapsulate message packets of dissimilar protocols such that the encapsulated message packets are recognized by a routing protocol of the virtual private network (see page 1, ¶ [0012]; page 3, ¶ [0044], VPNs).

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have modified Desai's reference with Afek which disclose use of SSH (see Afek, page 10, ¶ [0252], "SSH") to include the use of Virtual private network like in Desai's reference for the purpose to ensure secure data transfer (see Desai, page 3, ¶ [0044]).

Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baotran N. To whose telephone number is 571-272-8156. The examiner can normally be reached on Monday-Friday from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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BT 10/22/2007

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